



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :

H04N 5/00, 7/00

A2

(11) International Publication Number:

WO 98/09430

(43) International Publication Date:

5 March 1998 (05.03.98)

(21) International Application Number: PCT/EP97/05901

(22) International Filing Date: 11 August 1997 (11.08.97)

(30) Priority Data:

96/10068

9 August 1996 (09.08.96)

FR

(71) Applicant (for all designated States except US): THOMSON MULTIMEDIA (FR/FR); 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STRAUB, Gilles (FR/FR); (FR). DEHAU, Eric (FR/FR); Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(74) Agent: RUELLAN-LEMONNIER, Brigitte; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(81) Designated States: CN, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

Without international search report and to be republished upon receipt of that report.

Best Available Copy

(54) Title: METHOD FOR INDEXING DATA IN A DIGITAL TELEVISION TRANSMISSION SYSTEM

(57) Abstract

Method for indexing data in a digital television transmission system, in particular DVB. The transmission system comprises at least one receiver, which performs the following steps: extracting from a transmitted digital data stream hierarchically organized lists of networks, channels, services, events or descriptions of the same type; creating for each extracted list an array comprising an address pointer for each element of said extracted list, each address pointer pointing towards a memory area of said receiver in which additional information concerning each element is stored; referring to a given element in a list using a logic key composed of the juxtaposition of the index of said given element in the array to which it belongs and indexes of elements above said given element in said hierarchy. The invention can be used in the field of digital television (DVB, DSS...).

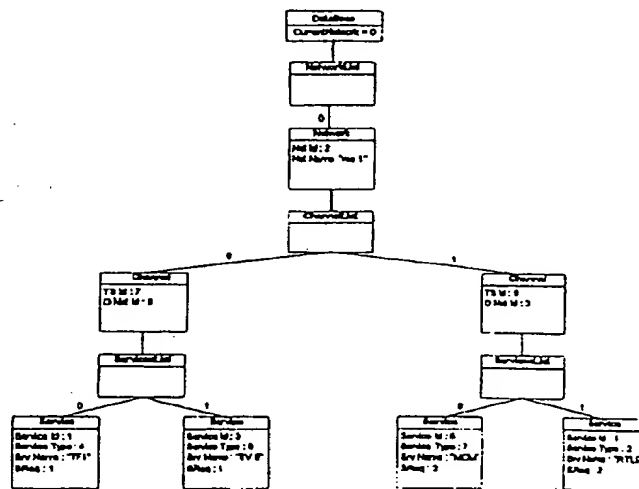


Table of transmitted module elements

Id Num	Function	Status	Type	App. Part
1	GetServiceFromChannel	ok	Permutation	A
2	GetServiceFromChannel	ok	Permutation	A

Table of additional elements

Id Num	Type	Function	Module	Version	Id Num
A	Permutation	GetServiceFromChannel	1	1.0	1.0

Table of additional elements

Module: 2	TS M: 2	O M: 2	Service Name: TV 2
Module: 1	TS M: 1	O M: 1	Service Name: TV 1

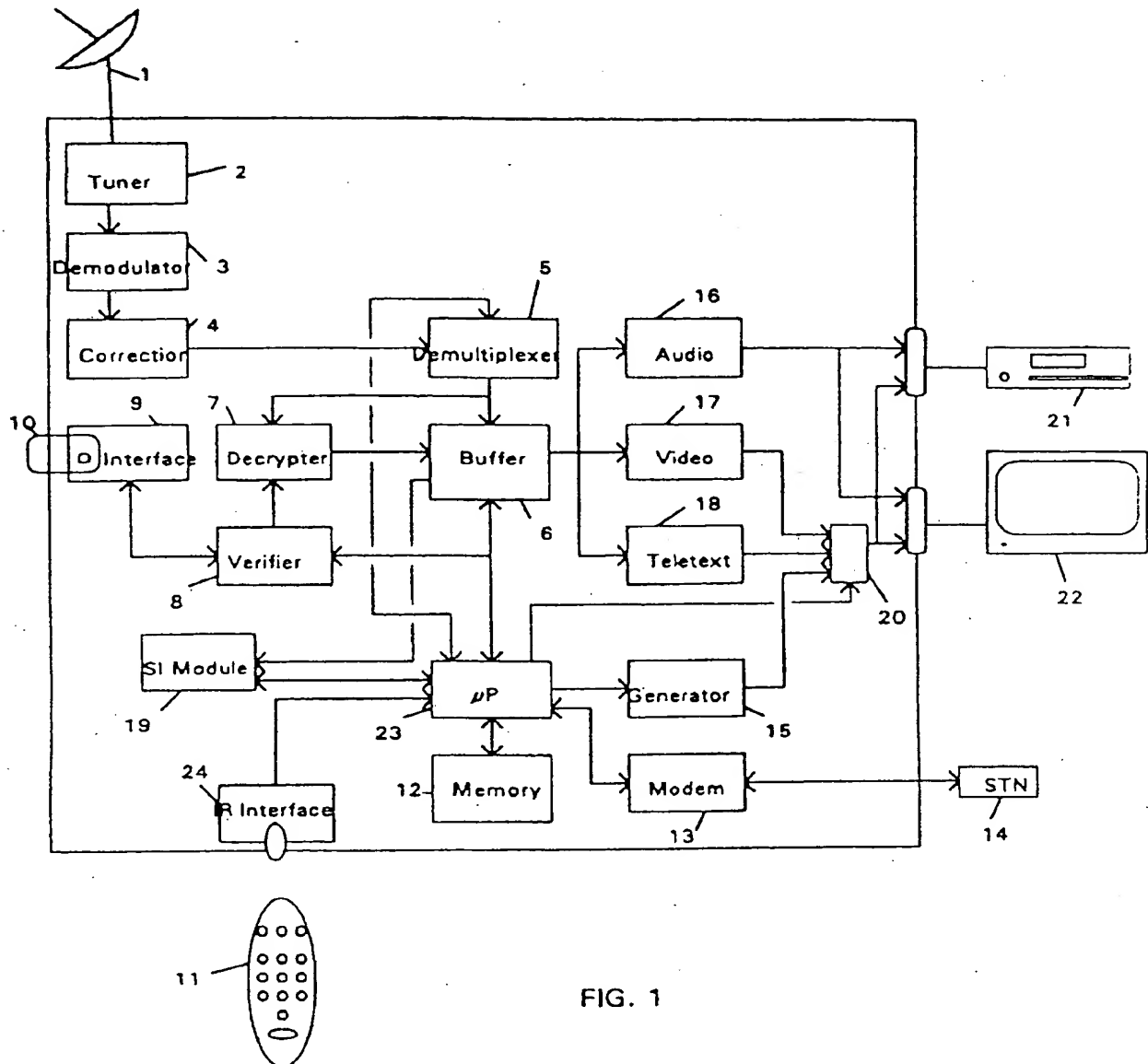


FIG. 1

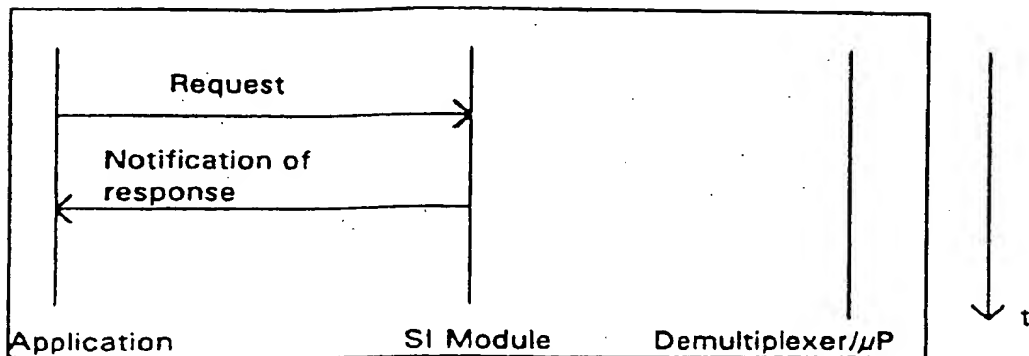


FIG. 2a

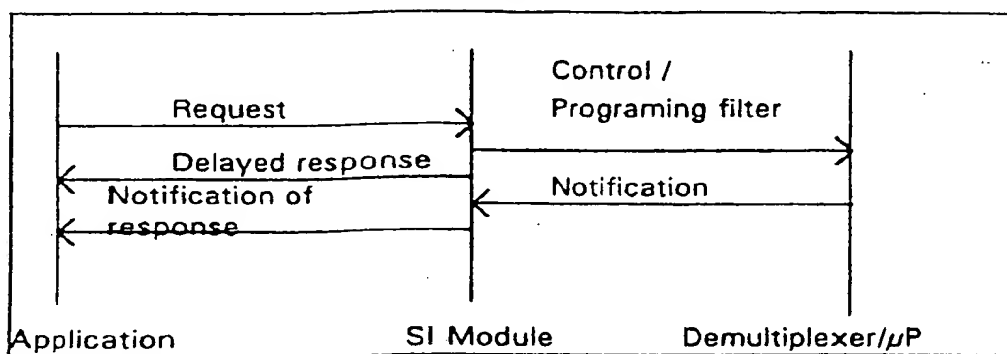


FIG. 2b

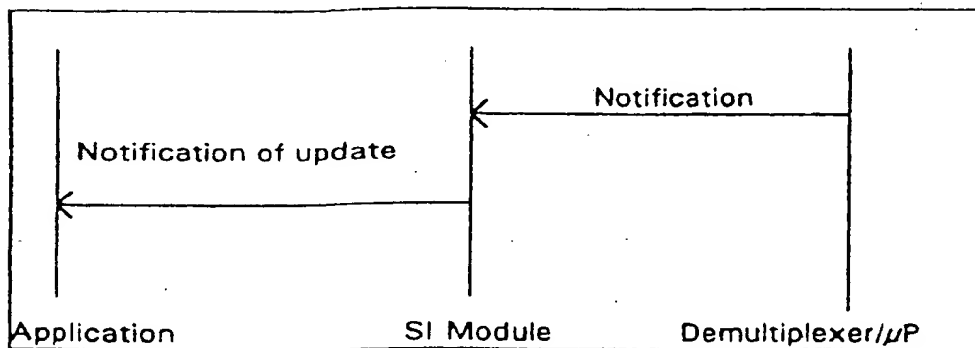


FIG. 2c

3/5

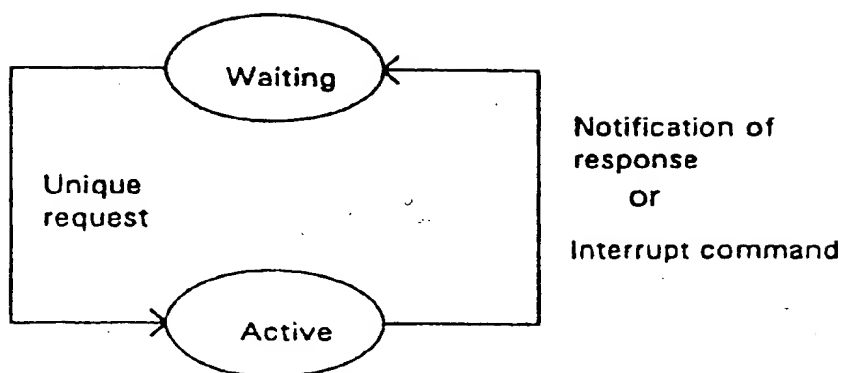
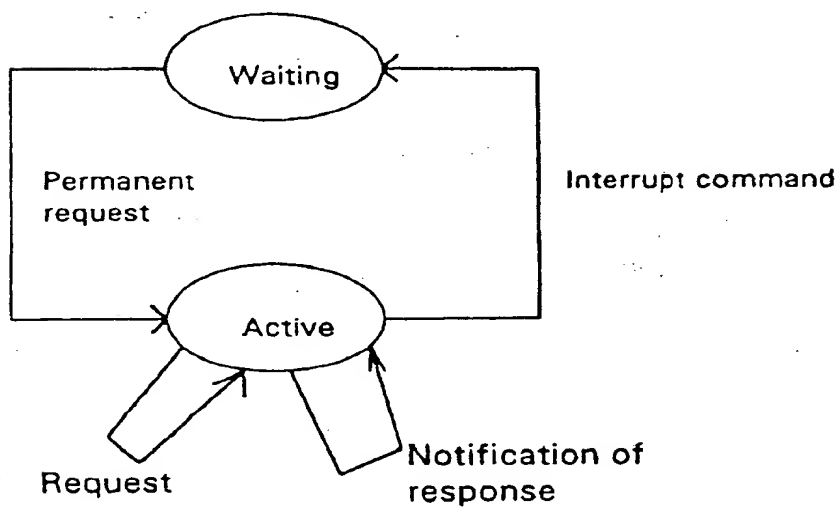
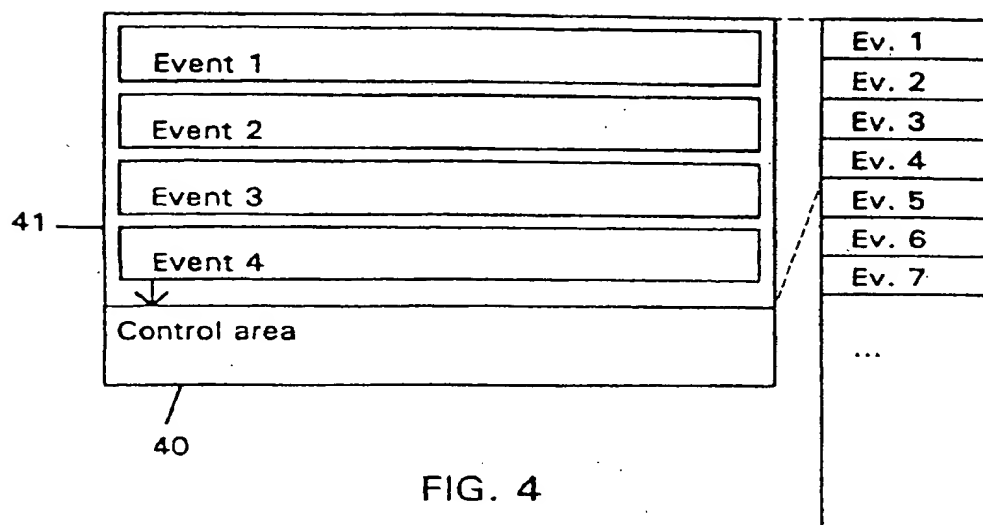


FIG. 3a

FIG. 3b





5/5

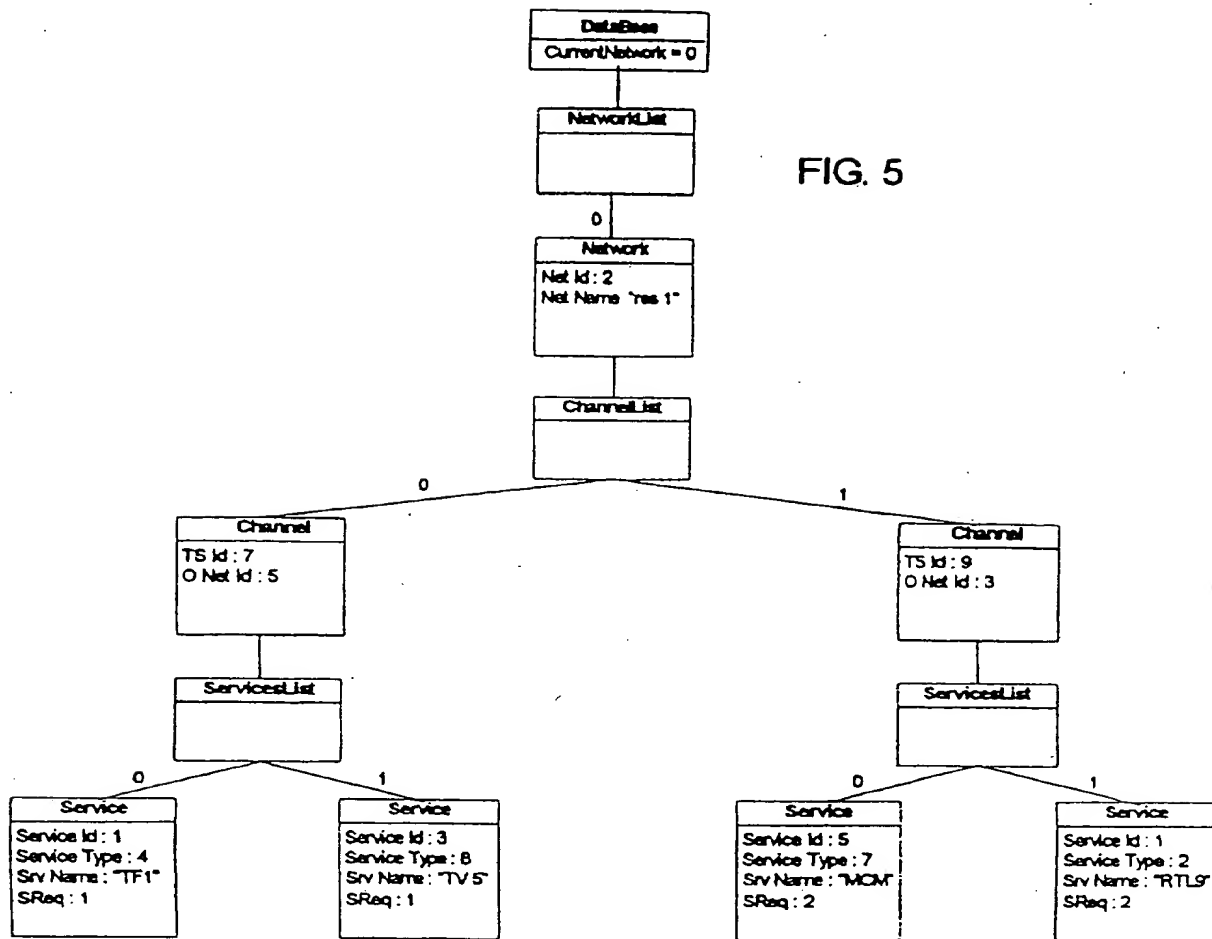


Table of management module requests

Id Req	Function	Status	Type	App Req
1	GetServListFromChannel	ok	Perm/N-ant	A
2	GetServListFromChannel	ok	Perm/N-ant	A

Param :
 Net Id : 2
 TS Id : 7
 O Net Id : 5
 (Key Log : 0.0)

Param :
 Net Id : 2
 TS Id : 9
 O Net Id : 3
 (Key Log : 0.1)

Table of applicational requests

Id Req	Type	Function	Waiting	SingNb	SList
A	Perm	GetServListFromNet	0	2	1,2

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ **BLACK BORDERS**

☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

☐ **FADED TEXT OR DRAWING**

☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**

☐ **SKewed/SLANTED IMAGES**

☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**

☐ **GRAY SCALE DOCUMENTS**

☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**

☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

☐ **OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.